

AN 1992:196342 CAPLUS

DN 116:196342

ED Entered STN: 16 May 1992

TI Thermosetting glossy topcoating compositions

IN Fukuda, Mitsuhiro; Yabuta, Motoshi; Nakao, Yasushi

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D133-14

ICS C09D133-14

CC 42-7 (Coatings, Inks, and Related Products)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 03275780	A2	19911206	JP 1990-74806	19900324
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PRAI JP 1990-74806	19900324			
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AB The title compns. comprise CO<sub>2</sub>H- and OH group-contg. \*\*\*acrylic\*\*\* resins (OH no. 40-90), epoxy- and OH group-contg. \*\*\*acrylic\*\*\* resins (OH no. 40-90), 5-30% \*\*\*aminoplasts\*\*\*, and quaternary \*\*\*phosphonium\*\*\* salts. Thus, a mixt. of 50% 30:15:15:10:30 Bu \*\*\*methacrylate\*\*\* (I)-2-ethylhexyl \*\*\*acrylate\*\*\* (II)-hydroxyethyl \*\*\*acrylate\*\*\* (III)- \*\*\*methacrylic\*\*\* acid (IV)-styrene (V) copolymer (OH no. 73) soln. 80, 50% 20:18.5:15:30:16.5 I-II-III-V-glycidyl \*\*\*methacrylate\*\*\* (VI) copolymer (OH no. 73) soln. 80, 60% melamine resin 33, Bu<sub>4</sub>P<sup>+</sup> Cl<sup>-</sup> 0.5, UV absorber 1.0, and V-VI- \*\*\*acrylic\*\*\* acid-12-hydroxystearic acid-Me \*\*\*methacrylate\*\*\* graft copolymer \*\*\*microgel\*\*\* 10 parts was coated on primed steel and cured at 140.degree. for 30 min to give a coating with good resistance to acids, water, solvents, gasohol, abrasion, and thermal cycling.

ST \*\*\*aminoplast\*\*\* crosslinker coating; hydroxyethyl \*\*\*methacrylate\*\*\* copolymer coating; glycidyl \*\*\*methacrylate\*\*\* copolymer coating; \*\*\*acrylate\*\*\* copolymer coating; \*\*\*methacrylic\*\*\* acid copolymer coating; styrene copolymer coating

IT Coating materials

( \*\*\*acrylic\*\*\* polymers, for glossy topcoats)

IT Crosslinking agents

( \*\*\*aminoplasts\*\*\*, for \*\*\*acrylic\*\*\* polymer coatings)

IT \*\*\*Aminoplasts\*\*\*

RL: MOA (Modifier or additive use); USES (Uses)

(crosslinking agents, for \*\*\*acrylic\*\*\* polymer coatings)

IT Crosslinking catalysts

(quaternary \*\*\*phosphonium\*\*\* salts, for \*\*\*acrylic\*\*\* polymer coatings)

IT 1100-88-5, \*\*\*Benzyltriphenylphosphonium\*\*\* chloride 2304-30-5, \*\*\*Tetrabutylphosphonium\*\*\* chloride

RL: CAT (Catalyst use); USES (Uses)

(catalysts, for crosslinking of \*\*\*acrylic\*\*\* polymer coatings)

IT 140921-87-5P 140921-88-6P 140921-89-7P 140921-90-0P

RL: TEM (Technical or engineered material use); PREP (Preparation); USES

(Uses)  
(coatings, thermosetting, manuf. of)

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